Notice of Allowability	Application No.	Applicant(s)
	10/645,518	OHNISHI ET AL.
	Examiner	Art Unit
	Julie-Huyen L. Ngo	2871
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to		
2. ☑ The allowed claim(s) is/are <u>1-27</u> .		
3. The drawings filed on 22 August 2003 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 8/22/03 & 10/28/03 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☐ Examiner's Amendm	e

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DETAILED ACTION

Allowable Subject Matter

Claims 1-27 are allowed.

Reasons for Allowance

Claims 1 and 11 are allowed since there is no prior art of record that teaches a panel temperature T ($^{\circ}$ C) of the liquid crystal display device is controlled to be equal to or greater than T_{NI}=65 $^{\circ}$ C and less than or equal to T_{NI}=15 $^{\circ}$ C, where T_{NI} ($^{\circ}$ C) is a nematic-isotropic phase transition temperature of a liquid crystal composition of the liquid crystal layer.

Claims 2-10 and 12-27 are allowed since they depend on the allowed claims.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Yamashita et al. (US6532046B1) disclose the liquid crystal display device 400 of the present invention is basically comprised of a substrate 401, a polymer dispersion type liquid crystal layer 402, a background layer 403, and a heating element 404. The liquid crystal display material of the present invention is used as a material for forming

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the polymer dispersion type liquid crystal layer 402 with single a nematic-isotropic phase transition temperature.

Doane et al. (US 4688900 A) disclose a light modulating material consisting of droplets of liquid crystal in a clear or light transmitting, flexible plastic sheet or film, such as a cured epoxy wherein a liquid crystal layer with the nematic-isotropic phase transition temperature near 80°C.

Tahara et al.(US 6551670 B2) disclose a liquid crystal optical element with liquid crystal composition of the nematic liquid crystal preferably having nematic isotropic phase transition temperature (Tc) of at least 70°C.

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (571) 272-2295. The Examiner can normally be reached on T-Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Robert H. Kim can be reached at (571) 272-2293.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1562.

December 29, 2004

Julie -Huyen L. Ngo

Primary Examiner